

ANALYST:		VPDES NO	
----------	--	----------	--

Parameter: Phosphate
Method: Persulfate Digestion
04/01

METHOD OF ANALYSIS:

	18th Edition of Standard Methods 4500-P B,5
	EPA Methods For Chemical Analysis 365.2
	AOAC 15th Edition 973.55

		Y	N
1)	Is 50 mL of sample or an aliquot diluted to 50 mL digested in a 125 mL Erlenmeyer flask? [SM-5.c; 365.2-8.1.1]		
2)	If sample turns red upon the addition of one drop of phenolphthalein is the color discharged with H ₂ SO ₄ solution? [SM-5.c; 365.2-8.1.4]		
3)	Is 1 mL of H ₂ SO ₄ solution added to all samples after color is discharged? [SM-5.c; 365.2-8.1.1]		
4)	Is either 0.4 g solid (NH ₄) ₂ S ₂ O ₈ or 0.5 g solid K ₂ S ₂ O ₈ added to the 50 mL sample prior to digestion? [SM-5.c; 365.2-8.1.2]		
5)	Are standards and samples digested on a preheated hot plate at a gentle boil for 30 - 40 minutes or until final volume of 10 mL is reached? [SM-5.c; 365.2-8.1.3]		
6)	Alternately, is digestion performed in an autoclave for 30 minutes at 98 to 137 kPa (15 to 20 psi)? [SM-5.c; 365.2-8.1.4]		
7)	Is digested sample brought back up to 50 mL with distilled water? Note: SM 18 th ed. recommends bringing digested sample up to 100 mL. [SM-5.c; 365.2-8.1.4]		
8)	Is cooled digested sample neutralized to a faint pink color (or pH of 7.0 ±0.2) with 1 N NaOH? [SM-5.c; 365.2-8.1.4]		

PROBLEMS: